



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Applicant:

Chaim GILON et al

Serial No.: 10/508,959

Filed: August 16, 2005

For: HISTONE CONJUGATES AND USES THEREOF

Examiner: DESAI, ANAND U

**Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**



Group Art Unit: 1656

Attorney  
Docket: 28557

## INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of the references cited. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

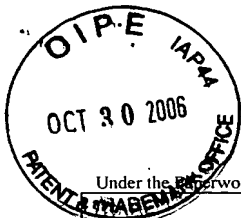
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Respectfully submitted,

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Dated: October 26, 2006



PTO/SB/08a (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Substitute for form 1449A/PTO				Application Number		10/508,959	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				Filing Date		August 16, 2005	
				First Named Inventor		Chaim GILON et al	
				Art Unit		1656	
				Examiner Name		DESAI, ANAND U	
Sheet	1	of	3	Attorney Docket Number		28557	

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	1	US-6,262,264	07-17-2001	Buck et al.	
	2	US-5,607,691	03-04-1997	Hale et al.	
	3	US-5,994,109	11-30-1999	Woo et al.	
	4	US-6,444,421	09-03-2002	Chung	
	5	US-6,369,030	04-09-2002	Cole et al.	
	6	US-5,807,999	09-15-1998	Kohtz	
	7	US-4,415,553	11-15-1983	Zhabilov et al.	
	8	US-5,939,070	08-17-1999	Johnson et al.	
	9	US-5,427,958	06-27-1995	Plaue et al.	
	10	US-2003/0170615	09-11-2003	Ustav et al.	
	11	US-4,476,301	10-09-1984	Imbach et al.	
	12	US-5,539,082	07-23-1996	Nielsen et al.	
	13	US-5,625,050	04-29-1997	Beaton et al.	
	14	US-5,714,331	02-03-1998	Buchardt et al.	
	15	US-5,719,262	02-17-1998	Buchardt et al.	
	16	US-5,932,447	08-03-1999	Siegall	
	17	US-6,303,374	10-16-2001	Zhang et al.	
	18	US-6,270,098	08-07-2001	Heyring et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Documents	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
	19	PCT WO 98/09985	03-12-1998	Eisenbach-Schwartz et al.		
	20	PCT WO 98/07859	02-26-1998	Merberg et al.		
	21	PCT WO 98/05635	02-12-1998	Owen et al.		
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			Examiner Name	DESAI, ANAND U	
Sheet	2	of	3	Attorney Docket Number	28557
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
	22	Booth et al. "The Use of A 'Universal' Yeast Expression Vector to Produce An Antigenic Protein of Mycobacterium Leprae", Immunology Letters, 19: 65-70, 1988.			
	23	Gardella et al. "Expression of Human Parathyroid Hormone-(1-84) in Escherichia Coli as A Factor X-Cleavable Fusion Protein", The Journal of Biological Chemistry, 265(26): 15854-15859, 1990.			
	24	Brogli et al. "Light-Regulated Expression of A Pea Ribulose-1,5-Bisphosphate Carboxylase Small Subunit Gene in Transformed Plant Cells", Science, 224 : 838-843, 1984.			
	25	Balicki et al. "Structure and Function Correlation in Histone H2A Peptide-Mediated Gene Transfer", Proc. Natl. Acad. Sci. USA, 99(11): 7467-7471, 2002. P.7469, Col.2, Lines 9-11.			
	26	Théodore et al. "Intraneuronal Delivery of Protein Kinase C Pseudosubstrate Leads to Growth Cone Collaps", The Journal of Neuroscience, 15(11): 7158-7167, 1995.			
	27	Tudela et al. "TGF-β3 Is Required for the Adhesion and Intercalation of Medial Edge Epithelial Cells During Palate Fusion", International Journal of Developmental Biology, 46(3): 333-336, 2002.			
	28	Boussif et al. "A Versatile Vector for Gene and Oligonucleotide Transfer Into Cells in Culture and In Vivo: Polyethylenimine", Proc. Natl. Acad. Sci. USA, 92: 7297-7301, 1995.			
	29	Cotton et al. "Transferrin-Polycation-Mediated Introduction of DNA Into Human Leukemic Cells: Stimulation by Agents That Affect the Survival of Transfected DNA or Modulate Transferrin Receptor Levels", Proc. Natl. Acad. Sci. USA, 87: 4033-4037, 1990.			
	30	Johnson-Saliba et al. "Distinct Importin Recognition Properties of Histones and Chromatin Assembly Factors", FEBS Letters, 467: 167-174, 2000.			
	31	Baake et al. "Characterisation of Nuclear Localisation Signals of the Four Human Core Histones", Journal of Cellular Biochemistry, 81(2): 333-346, 2001. Abstract.			
	32	Fritz et al. "Gene Transfer Into Mammalian Cells Using Histone-Condensed Plasmid DNA", Human Gene Therapy, 7(12): 1395-1404, 1996. Abstract.			
	33	Böttger et al. "Acid Nuclear Extracts as Mediators of Gene Transfer and Expression", Biochimica et Biophysica Acta, 1395(1): 78-87, 1998. Abstract.			
	34	Chen et al. "Galactosylated Histone-Mediated Gene Transfer and Expression", Human Gene Therapy, 5(4): 429-435, 1994. Abstract.			
	35	Ryser et al. "Histones and Basic Polyamino Acids Stimulate the Uptake of Albumin by Tumor Cells in Culture", Science, 150(3695): 501-503, 1965. Abstract.			

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<sup>1</sup>. Applicant's unique citation designation number (optional). <sup>2</sup>. Applicant is to place a check mark here if English language Translation is attached.

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	36	Brix et al. "Extracellularly Occurring Histone H1 Mediates the Binding of Thyroglobulin to the Cell Surface of Mouse Macrophages", Journal of Clinical Investigations, 102(2): 283-293, 1998.			
	37	Murphy et al. "Kinetics of histone Endocytosis in Chinese Hamster Ovary Cells", The Journal of Biological Chemistry, 257(14): 1695-1701, 1982.			
	38	Higashijima et al. "Regulation of G(i) and G(o) by Mastoparan, Related Amphiphilic Peptides, and Hydrophobic Amines. Mechanism and Structural Determinants of Activity", The Journal of Biological Chemistry, 265(24): 14176-14186, 1990.			
	39	Schmid et al. "ATP Is Required for Receptor-Mediated Endocytosis in Intact Cells", The Journal of Cell Biology, 111(6/ Pt.1): 2307-2318, 1990.			
	40	Okamoto et al. "Cholesterol Oxidation Switches the Internalization Pathway of Endothelin Receptor Type A From Caveolae to Clathrin-Coated Pits in Chinese Hamster Ovary Cells", The Journal of Biological Chemistry, 275(9): 6439-6440, 2000.			
	41	Adam et al. "Nuclear Protein Import in Permeabilized Mammalian Cells Requires Soluble Cytoplasmic Factors", The Journal of Cell Biology, 111: 807-816, 1990.			
	42	Adam et al. "Cytosolic Proteins That Specifically Bind Nuclear Location Signals Are Receptors for Nuclear Import", Cell, 66(5): 837-847, 1991. Abstract.			
	43	Anderson et al. "Protocytosis: Sequestration and Transport of Small Molecules by Caveolae", Science (Perspectives), 255: 410-411, 1998.			
	44	Suzuki et al. "Possible Existence of Common Internalization Mechanisms Among Arginine-Rich Peptides", The Journal of Biological Chemistry, 277(4): 2437-2443, 2002.			
	45	Futaki et al. "Arginine-Rich Peptides. An Abundant Source of Membrane-Permeable Peptides Having Potential as Carriers for Intracellular Protein Delivery", The Journal of Biological Chemistry, 276(8): 5836-5840, 2001.			
	46	Polyakov et al. "Novel-TAT-Peptide Chelates for Direct Transduction of Technetium-99m and Rhenium Into Human Cells for Imaging and Radiotherapy", Bioconjugate Chemistry, 11(6): 762-771, 2000. Abstract.			
	47	Plank et al. "Application of Membrane-Active Peptides for Drug and Gene Delivery Across Cellular Membranes", Advanced Drug Delivery Reviews, 34: 21-35, 1998. Abstract.			
	48	Efthymiadis et al. "The HIV-1 Tat Nuclear Localization Sequence Confers Novel Nuclear Import Properties", The Journal of Biological Chemistry, 273(3): 1623-1628, 1998.			

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